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- 5. When prossed, A. R. Rasatkin expressed ignorance of the details of the set-lite program. Be claims to be a rocket man. Be was a bit inconsistent. Be u. 2.20-80 asseauches in rockets; yet when asked what the antenna configuration was, he said he did not know. The Russians had not as yet set up radio tracking networks for establite observation. It was being considered but had not yet been done. Kasatkin also said there was an optical tracking program on an ematteur scope similar to our Moonbeam program and used the number 66 as the number of stations they had lined up. Be was not clear on whether signals would be plane or circularly polarized. Be said he would at a later date send information to us as to what kind of information the Russians would like out of any radio reception the U. S. should make. A list of questions was drawn up as to what kind of observations the radio observers should make which would be of use in the syms of the Russians.
- 6. The Working Group & Tracking and Computation desires to emphasize the scientific value of precision orbital information and recognizing the limitation of optical methods with respect to the number of observations in a limited period recommends that whenever possible all satellites carry means for transmitting radio signals at a frequency high enough to make possible high precision radio measurements of satellite positions.
- 7. The Russians accepted this as a resolution. They also pointed out that they had described the 20 and 40 megacycle equipment in a publication Radio, number 6.
- 8. Men asked how they were going to handle the larger antenna, Kasatkin replied that he did not know. Later he said that in the beginning they are not interested in the way "in which the U. S. is interested" but they expected to get principally the time of Zenith crossing by observing the Dopplar effect. In other words the note would be high as it approached and would rapidly drop off; but by drawing a curve of the change in frequency you can draw a curve of the orbit, although admittedly it is very crude.

 Dasatkin is interested in the research aspects of the satellite.

 (Concerning the statement and same times by the Boriet delegates to the effect that the inflatements were but into a package and given the afficient for living, source time the inflatement, that he is interested to the nilitary sust have a very tight security policy with respect to the nilitary sust have a very tight security policy with respect to the satellite program and that the military have insisted that the scientific personnel make a rather complete self-contained package which they call a container and hand it to the military who then fit it into the satellite or the rocket.)
- 9. Following are source's impressions based on the conference proceedings up to 3 Oct 57. He gathered the impression which rather confirmed what earlier had been believed about the Soviet earth satellite effort and that is that it is based on the use of their ballistic missile the IRM; that the satellite application is a patched up job; that it is probably weak on guidance and that it is a hit or miss affair. It is hard to draw a conclusion as to whether or not they have already fired a shot. There are two ways of lookingst it: (1) they did fire and now realise "they have a hear by the tail" and there is much more work to do before they can go such further, or (2) they have not gotten to the point where they are ready to take a shot and again they have a hear by the tail. Source believes they are a long way from letting one of these go. (This comes from small shedings.) Possibly they have taken a shot: The statement





was made not too long ago which indicated that some people in Russia felt this was imminent and if it did happen it would be tied up with 17 There was also the fact that the three satellite personnel did not e to the conference. All the Russians asked for this conference. They scheduled the group coming here on the ground that when they got here they would be able to make this world-shaking amountment, that the satellite was now a fact. When this did not come to pass, they were exught with little or no material and they just would not let the people who could answer questions come to Veshington. The first day of the meeting when they cancelled the paper which should have been given as the first paper, they talked later in that session. There was a talk by some of the tracking, and the situation after we asked some questions was really emberrassing because the answers they give were so inadequate that people in the ropp laughed. At the time the answer was given - the first answer made was something to the effect that the Soviets would announce the laumching of the satelite in plenty of time for us to make modifications in our radio tracking system if he wanted to track it, but then Blagonravov pulled the men back (presumably the interpreter) and talked to him a bit end he changed his answer to go something like this: Once the satellite was samehed the Soviets would announce it and it would stay in orbit long enough for the rest of the world to make changes in their radio apparatus.

10. In the working session 3 Ont 57, Kasatkin sat alone except for the interpreter who was with him and was bombarded with many questions, many of which he had to answer with, "that is out of my field", "I do not know", "I am really a rocket man". Before the afternoon was over he was quite upset about this, quite red in the face and disturbed, but he remained pleasant and managed to smile though obviously upset at the kind of question being asked and at his inability to answer. He could appear stupid to a sympathetic person as he was quite inconsistent. Obviously he was instructed not to answer specific questions about the materials.